

Series 970 PowerTrip™ Connectors and Accessories

440-069 EMI/RFI Adapter



440-069 EMI/RFI ADAPTER, BAND-MASTER™ SHIELD TERMINATION

Spin coupling EMI/RFI adapter with anti-decoupling ratchet prevents loosening under vibration. Fits standard Series 970 connectors. Terminate cable shield to backshell with **Band-Master™ ATS** (Advanced Termination System) stainless steel band. Optional heatshrink boot provides strain relief and environmental seal. Backshell features splined connector interface for improved mechanical and electrical performance.



MATERIALS AND FINISHES

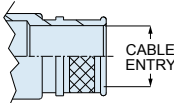
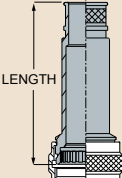
Adapter: aluminum or stainless steel. See **How To Order** for material & finish options.

Anti-decoupling spring: high-grade engineering thermoplastic

INSTALLATION TORQUE

Shell Size	Recommended Installation Torque Inch-Pounds ± 5
18	116
20, 24	136
28, 32, 36	148
40	164

HOW TO ORDER

SERIES	SHELL MATERIAL / FINISH	SHELL SIZE	CABLE ENTRY CODE	LENGTH CODE	OPTIONAL BAND STRAP	OPTIONAL SHRINK BOOT																																																																																																												
440PS069 Straight Exit 	ME Aluminum / Electroless Nickel RoHS Compliant NF Aluminum / Cadmium with Olive Drab Chromate NFP Aluminum / Cadmium with Olive Drab Chromate, Nickel- plated Shield Termination Area, Polysulfide Barrier (See Application Note) ZR Aluminum / Zinc-Nickel with Non-Reflective Black Chromate RoHS Compliant MT Aluminum / Nickel-PTFE RoHS Compliant Z1 Stainless Steel / Passivated RoHS Compliant	18 20 24 28 32 36 40	 <table><thead><tr><th></th><th colspan="2">Cable Entry</th></tr><tr><th>Code</th><th>In.</th><th>mm.</th></tr></thead><tbody><tr><td>02</td><td>.250</td><td>6.4</td></tr><tr><td>03</td><td>.375</td><td>9.5</td></tr><tr><td>04</td><td>.500</td><td>12.7</td></tr><tr><td>05</td><td>.625</td><td>15.9</td></tr><tr><td>06</td><td>.750</td><td>19.1</td></tr><tr><td>07</td><td>.875</td><td>22.2</td></tr><tr><td>08</td><td>1.000</td><td>25.4</td></tr><tr><td>09</td><td>1.125</td><td>28.6</td></tr><tr><td>10</td><td>1.250</td><td>31.8</td></tr><tr><td>11</td><td>1.375</td><td>34.9</td></tr><tr><td>12</td><td>1.500</td><td>38.1</td></tr><tr><td>13</td><td>1.625</td><td>41.3</td></tr><tr><td>14</td><td>1.750</td><td>44.5</td></tr><tr><td>15</td><td>1.875</td><td>47.6</td></tr><tr><td>16</td><td>2.000</td><td>50.8</td></tr><tr><td>17</td><td>2.125</td><td>54.0</td></tr><tr><td>18</td><td>2.250</td><td>57.2</td></tr><tr><td>19</td><td>2.375</td><td>60.3</td></tr><tr><td>20</td><td>2.500</td><td>63.5</td></tr></tbody></table>		Cable Entry		Code	In.	mm.	02	.250	6.4	03	.375	9.5	04	.500	12.7	05	.625	15.9	06	.750	19.1	07	.875	22.2	08	1.000	25.4	09	1.125	28.6	10	1.250	31.8	11	1.375	34.9	12	1.500	38.1	13	1.625	41.3	14	1.750	44.5	15	1.875	47.6	16	2.000	50.8	17	2.125	54.0	18	2.250	57.2	19	2.375	60.3	20	2.500	63.5	Omit for 45° and 90° styles. The Length Code is the length of the adapter in ½ inch increments. Minimum length is 2 inches.  <table><thead><tr><th></th><th colspan="2">Length</th></tr><tr><th>Code</th><th>In.</th><th>mm.</th></tr></thead><tbody><tr><td>-4</td><td>2.0</td><td>51</td></tr><tr><td>-5</td><td>2.5</td><td>64</td></tr><tr><td>-6</td><td>3.0</td><td>76</td></tr><tr><td>-7</td><td>3.5</td><td>89</td></tr><tr><td>-8</td><td>4.0</td><td>102</td></tr><tr><td>-9</td><td>4.5</td><td>114</td></tr><tr><td>-10</td><td>5.0</td><td>127</td></tr><tr><td>-11</td><td>5.5</td><td>140</td></tr><tr><td>-12</td><td>6.0</td><td>152</td></tr><tr><td>-13</td><td>6.5</td><td>165</td></tr><tr><td>-14</td><td>7.0</td><td>178</td></tr><tr><td>-15</td><td>7.5</td><td>191</td></tr><tr><td>-16</td><td>8.0</td><td>203</td></tr></tbody></table>		Length		Code	In.	mm.	-4	2.0	51	-5	2.5	64	-6	3.0	76	-7	3.5	89	-8	4.0	102	-9	4.5	114	-10	5.0	127	-11	5.5	140	-12	6.0	152	-13	6.5	165	-14	7.0	178	-15	7.5	191	-16	8.0	203	K Adapter supplied with pre-coiled stainless steel shield termination band Omit if bands will be purchased separately. Refer to Band-Master strap and tool ordering information in this catalog. 	T Adapter supplied with standard heatshrink boot. S Adapter supplied with low-smoke, zero halogen heatshrink boot. Omit if boots will be purchased separately. Refer to heatshrink boot ordering information in this catalog. 
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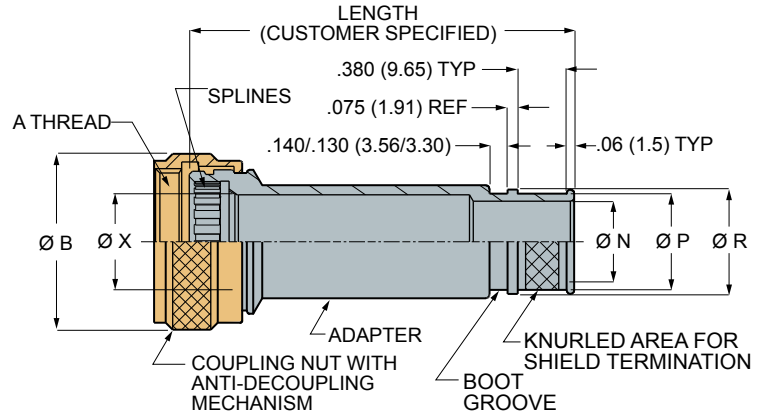


Series 970 PowerTrip™ Connectors and Accessories

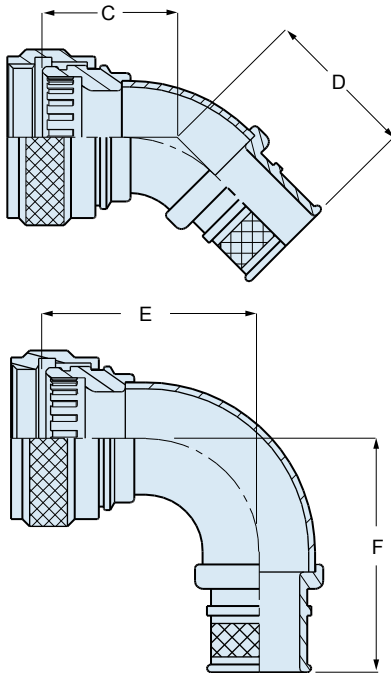
440-069 EMI/RFI Adapter

440-069 EMI/RFI ADAPTER, BAND-MASTER™ SHIELD TERMINATION

Shell Size	A Thread	ø B Max.		ø X Min.	
		In.	mm.	In.	mm.
18	1.125-18 UNEF-2B	1.39	35.3	.724	18.4
20	1.250-18 UNEF-2B	1.53	38.9	.858	21.8
24	1.4375-18 UNEF-2B	1.72	43.7	1.043	26.5
28	1.8125-16 UN-2B	2.13	54.1	1.353	34.4
32	2.0625-16 UNS-2B	2.35	59.7	1.620	41.2
36	2.250-16 UN-2B	2.59	65.8	1.823	46.3
40	2.500-16 UN-2B	2.87	70.6	2.050	52.1

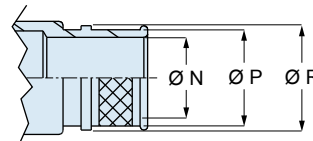


45° AND 90° DIMENSIONS



Shell Size	C Max.		D Max.		E Max.		F Max.	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.
18	1.250	31.8	2.468	62.7	1.906	48.4	1.812	46.0
20	1.312	33.3	2.657	67.5	2.031	51.6	1.938	49.2
24	1.406	35.7	3.063	77.8	2.281	57.9	2.188	55.6
28	1.500	38.1	3.656	92.9	2.531	64.3	2.625	66.7
32	1.675	42.5	3.845	97.7	2.625	66.7	2.895	73.5
36	1.799	45.7	4.230	107.4	2.875	73.0	3.145	79.9
40	1.861	47.3	4.459	113.3	3.025	76.8	3.295	83.7

CABLE ENTRY DIMENSIONS



Cable Entry Code	øN		øP		øR		Heatshrink Boot Ref.*
	In.	mm.	In.	mm.	In.	mm.	
02	.250	6.4	.375	9.53	.437	11.10	770-003S112
03	.375	9.5	.500	12.70	.562	14.27	770-001S103
04	.500	12.7	.625	15.88	.687	17.45	770-001S104
05	.625	15.9	.750	19.05	.812	20.62	770-001S104
06	.750	19.1	.875	22.23	.937	23.80	770-001S105
07	.875	22.2	1.000	25.40	1.062	26.97	770-001S105
08	1.000	25.4	1.125	28.58	1.187	30.15	770-001S106
09	1.125	28.6	1.250	31.75	1.312	33.32	770-001S107
10	1.250	31.8	1.375	34.93	1.437	36.50	770-001S107
11	1.375	34.9	1.500	38.10	1.562	39.67	770-001S107
12	1.500	38.1	1.625	41.28	1.687	42.85	770-001S108
13	1.625	41.3	1.750	44.45	1.812	46.02	770-001S108
14	1.750	44.5	1.875	47.63	1.937	49.20	770-001S108
15	1.875	47.6	2.000	50.80	2.062	52.37	770-001S109
16	2.000	50.8	2.125	53.98	2.187	55.55	770-001S109
17	2.125	54.0	2.250	57.15	2.313	58.75	770-003S110
18	2.250	57.2	2.375	60.37	2.438	61.93	770-003S110
19	2.375	60.3	2.500	63.50	2.563	65.10	770-003S110
20	2.500	63.5	2.625	66.68	2.688	68.28	770-003S110

* Heatshrink boot part number specifies standard material. For low-smoke, zero halogen change "S1" to "S2".

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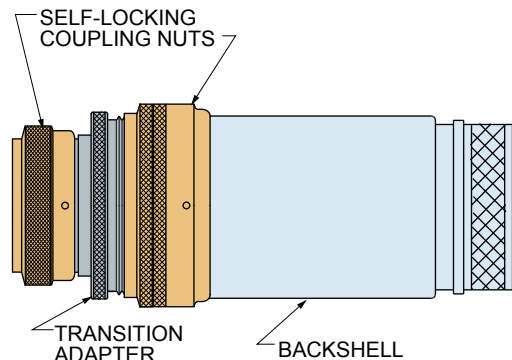
440-069 EMI/RFI Adapter



ALTERNATE CONFIGURATION FOR LARGE CABLES

If the cable entry diameter exceeds the diameter of the backshell shown in the table at right, the backshell will be supplied with a **transition adapter**. The clamp and adapters are first installed over the cable jacket, and then are threaded onto the transition adapter. On straight exit backshells, the transition adapter does not affect the length. On 45° and 90° versions the transition adapter adds 1.00 inch (25.4mm) maximum to the backshell length.

Shell Size	Backshell Inside Diameter	
	In.	mm.
18	.72	18.3
20	.85	21.7
24	1.04	26.4
28	1.35	34.3
32	1.62	41.1
36	1.82	46.3
40	2.05	52.0

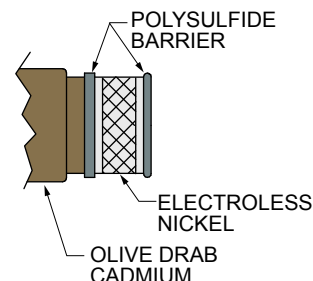


APPLICATION NOTE: POLYSULFIDE BARRIER FOR GALVANIC CORROSION PROTECTION

Olive drab (OD) cadmium (Cd) over electroless nickel (EN) is available in two versions. The standard version, designated as Glenair code **NF**, is a uniform Cd/EN finish over the entire part. A second version, designated as Glenair code **NFP**, is selectively plated with electroless nickel in the knurled shield attachment area. A polysulfide barrier separates the electroless nickel area from the cadmium plated area. This selectively plated version prevents galvanic corrosion that could potentially occur if nickel-coated shield braid is attached to a cadmium plated surface.

The Polysulfide Process

First, the part is plated with electroless nickel. Next, a tape mask is applied to the shield termination area. Following cadmium plating and chromate conversion coating, the tape is removed, exposing the electroless nickel. Polysulfide is applied with a brush to completely seal the transition area between the nickel and cadmium. The final step is to oven cure the polysulfide.



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